

INTERNATIONAL SEARCH REPORT

International Publication No.
PCT/CA 01708

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H02J3/38 H02M5/27 F01D15/10 H02P9/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02J H02M F01D H02P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 832 625 A (GYUGYI L) 27 August 1974 (1974-08-27) cited in the application column 3, line 3 - line 62 column 5, line 15 - line 22; figure 2	1-14
Y	US 4 417 194 A (CURTISS WILLIAM P ET AL) 22 November 1983 (1983-11-22) column 7, line 58 - column 8, line 58; figures 1,2	1-14
A	EP 0 348 938 A (LOHER AG) 3 January 1990 (1990-01-03) abstract; figure 2	1-14

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

5 March 2004

Date of mailing of the international search report

15/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Gentili, L

INTERNATIONAL SEARCH REPORT

on patent family members

International Application No

PCT/CA/01708

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3832625	A	27-08-1974	JP 999499 C	30-05-1980
			JP 50018916 A	27-02-1975
			JP 54035284 B	01-11-1979
US 4417194	A	22-11-1983	CA 1169486 A1	19-06-1984
			CA 1181482 A2	22-01-1985
			CA 1181483 A2	22-01-1985
			DE 3113178 A1	06-05-1982
			ES 8302377 A1	01-04-1983
			ES 8305974 A1	16-07-1983
			ES 8305975 A1	16-07-1983
			ES 8305976 A1	16-07-1983
			ES 8305977 A1	16-07-1983
			ES 8306933 A1	16-09-1983
			ES 8305978 A1	16-07-1983
			ES 8305979 A1	16-07-1983
			ES 8305980 A1	16-07-1983
			ES 8305981 A1	16-07-1983
			FR 2490421 A1	19-03-1982
			GB 2085622 A ,B	28-04-1982
			GB 2141885 A ,B	03-01-1985
			GB 2141886 A ,B	03-01-1985
			GB 2142450 A ,B	16-01-1985
			GB 2142451 A ,B	16-01-1985
			GB 2142491 A ,B	16-01-1985
			IT 1143472 B	22-10-1986
			JP 57116600 A	20-07-1982
EP 0348938	A	03-01-1990	DE 3833719 C1	19-10-1989
			DE 58904600 D1	15-07-1993
			DK 327389 A	02-01-1990
			EP 0348938 A1	03-01-1990